

IN THE CLAIMS

1-9. Canceled.

10. (Currently Amended) A superconducting magnet comprising:

superconducting coils;

coil containers, each of said coil containers containing a superconducting coil together with coolant; and

~~a refrigerator for cooling said coolant,~~

said coil containers being arranged separately from and opposite to each other, and a magnetic field space being formed between opposite sets of coil containers,

wherein a support member is provided for forming a magnetic circuit so as to arrange said coil containers separately from and opposite to each other; and

a connecting passageway provided in said support member for circulation of said coolant~~an opening portion provided in said support member having a connecting passage of said coolant contained in said coil containers.~~

11. (Currently Amended) A superconducting magnet according to claim 10, wherein the coolant in one coil container communicates with other coil containers through said

~~connecting passages passageway provided in said opening  
portions of said support member.~~

12. (Currently Amended) A superconducting magnet according to claim 10, wherein lead wires connecting said superconducting coils in said coil containers to each other pass through an inside of said connecting passageway.

13. (Previously Presented) A superconducting magnet according to claim 10, wherein a ferromagnetic member is arranged on a rear side of an opposite surface of each of said coil containers.

14. (Previously Presented) A superconducting magnet according to claim 10, wherein a coolant tank supplying coolant to said coil container is provided separately from said coil container, and a refrigerator is provided in said coolant tank, and said coolant tank and said coil container are in communication through a coolant circulation passage.

15. (Previously Presented) A superconducting magnet according to claim 14, wherein a flexible portion is provided

in an intermediate portion of said coolant circulation passage.

16. (Currently Amended) A superconducting magnet comprising:

superconducting coils;

coil containers, each of said coil containers containing a superconducting coil together with coolant; and

~~a refrigerator for cooling said coolant,~~

said coil containers being arranged separately from and opposite to each other, and a magnetic field space being formed between opposite sets of coil containers,

wherein a support member is provided for forming a magnetic circuit so as to arrange said coil containers separately from and opposite to each other; and

a connecting passageway provided in said support member through which lead wires connecting said superconducting coils in said coil containers to each other ~~pass through opening portions provided in said support member.~~

17. (Currently Amended) A superconducting magnet according to claim 16, wherein the coolant in one coil container communicates with other coil containers through said

connecting ~~passages~~passageway provided in an opening portion of said support member.

18. (Currently Amended) A superconducting magnet according to claim 17, wherein lead wires connecting said superconducting coils in said coil containers to each other pass through an inside of said connecting ~~passages~~passageway.

19. (New) A superconducting magnet according to claim 10, further comprising a refrigerator for cooling said coolant.

20. (New) A superconducting magnet according to claim 16, further comprising a refrigerator for cooling said coolant.